## Index of Claims

Application/Control No.

Applicant(s)/Patent under Reexamination

10/581,197 Examiner

Scott A. Smith

HASEGAWA ET AL.

√ Rejected
= Allowed

- (Through numeral)
Cancelled

N Non-Elected
I Interference

A Appeal
O Objected

3721

|        | ι       | _             |               |         |          | J  | L       |         |     |        |          |   |          |               | _       | L             | _       |         |         |     |          | L        | _       |               |              | _       |         |          |          |        |
|--------|---------|---------------|---------------|---------|----------|----|---------|---------|-----|--------|----------|---|----------|---------------|---------|---------------|---------|---------|---------|-----|----------|----------|---------|---------------|--------------|---------|---------|----------|----------|--------|
| Claim  | , T     | _             |               | _       | Date     | _  |         | _       | ΙГ  | Cla    | im       | _ |          |               | п       | ate           | _       |         | _       | 1   | Ck       | aim      | _       |               | _            | Da      | he      |          |          | $\neg$ |
|        | $\neg$  | Т             | $\top$        | Т       | T        | ĬТ | Т       | Т       | l   |        |          | П | П        | Т             | Ť       | Ť             | Т       | Т       | Т       | 1   |          |          | Т       | Т             | Т            | T       | Ť       | П        | П        | ┪      |
| Te   3 | Onginal | 11/7/08       |               |         |          | Ш  |         |         |     | æ      | Original | Ш |          |               | - 1     |               |         |         |         |     | æ        | Original |         |               |              |         |         |          |          |        |
| Final  | Ē       | 듸             |               | 1       |          | ΙI |         |         |     | Final  | rig.     | ш |          |               | - 1     |               |         |         |         |     | Final    | - E      |         |               |              |         |         |          |          |        |
| -   0  | 5       | ÷             |               |         |          | ΙI |         |         |     | _      | ō        | ш |          |               | - 1     |               |         |         |         |     |          | ō        |         |               |              |         |         |          |          |        |
| 1      | 1       | V             | $\pm$         | +       | $^{+}$   | Н  | $\neg$  |         | l   |        | 51       | Н |          | $\dashv$      | 7       | _             | $^{+}$  | +       | +       | i   |          | 101      | _       | $^{+}$        | $^{+}$       | +       | +       | т        |          | ⊣      |
|        | 2       | 7             |               | +       | -        | Н  | $\neg$  | $\neg$  | l   |        | 52       | Н |          | 7             | 7       | _             | $^{+}$  | +       | +       | il  |          | 102      | _       | $\neg$        | $^{+}$       | +       | +       | T        |          | ⊣      |
|        | 3       | +             | _             | +       | -        | Н  | $\neg$  | -       | l   |        | 53       | Н | $\neg$   | $\neg$        | 7       | _             | $^{+}$  | +       | +       | i   |          | 103      | _       | $\rightarrow$ | $^{+}$       | +       | +       | $\vdash$ |          | ⊣      |
|        | 4       | $\dashv$      | $\overline{}$ | +       | -        | Н  | $\neg$  | _       | l   | $\neg$ | 54       | Н | $\dashv$ | $\dashv$      | _       | _             | $^{+}$  | +       | +       | i   | -        | 104      | 7       | $\rightarrow$ | $^{+}$       | +       | +       |          | $\neg$   | ⊣      |
|        | 5       | $\dashv$      | $\overline{}$ | +       | -        | Н  | $\neg$  | _       | l   |        | 55       | Н | $\dashv$ | 7             | 7       | _             | $^{+}$  | +       | +       | 1   |          | 105      | _       | $\rightarrow$ | $^{+}$       | +       | +       |          | $\dashv$ | ⊣      |
| -      |         | $\neg$        | $\top$        | $^{+}$  | -        | Н  | $\neg$  | -       |     |        | 56       | Н | $\Box$   | $\neg$        | 7       |               | $\top$  | $\top$  | +       | 1   |          | 106      | $\neg$  | $\neg$        | $^{+}$       | +       | T       |          |          | ⊣      |
|        | 7       | $\neg$        | $\top$        | 1       | 1        | Н  | $\neg$  | $\top$  | 1   |        | 57       | Н | П        | _             | 7       |               | $\top$  | +       | +       | 1   |          | 107      | _       | $\neg$        | $^{+}$       | +       |         |          |          | ╛      |
| 8      |         | $\neg$        | $\top$        | 1       | -        | Н  | $\neg$  | -       | 1   |        | 58       | П | $\Box$   | $\neg$        | ╅       | _             | $\top$  | $^{+}$  | -       | i   |          | 108      | _       | $\neg$        | $^{+}$       | +       |         |          | $\neg$   | ⊣      |
|        |         | $\neg$        | $^{-}$        |         | 1        | Н  | $\neg$  | $\top$  | l F |        | 59       | Н | П        | $\neg$        | _       | _             | $\top$  | $\top$  | -       | i   |          | 109      | _       | $\neg$        | +            | +       |         |          |          | ⊣      |
|        | 0       | $\dashv$      | $\top$        | 1       | т        | Н  | 7       | т       | l   |        | 60       | Н | $\dashv$ | 7             | _       | $^{+}$        | $\top$  | $^{+}$  | $^{+}$  | i I |          | 110      | 7       | $\top$        | $^{+}$       | +       | T       | П        | $\vdash$ | ┨      |
| 1      |         |               | $\top$        |         | T        | П  | 7       |         | ı H |        | 61       | П |          | 7             | 7       | _             | $^{+}$  | $^{+}$  |         | i I |          | 111      | 7       | $\top$        | +            | $\top$  |         | Ħ        |          | ┪      |
|        | 2       |               | $\top$        |         |          | П  | 7       |         | ΙĖ  |        | 62       | П |          | $\neg$        | _       | _             | 1       | $^{+}$  |         | il  |          | 112      | _       | 1             | +            | $\top$  |         | Ħ        |          | ┪      |
|        | 3       | $\neg$        | $\top$        |         | Т        | П  | 7       | $\top$  | ı H |        | 63       | П |          | 7             | 7       | _             | $^{+}$  | 十       |         | il  |          | 113      | 7       | $\top$        | $^{\dagger}$ | $\top$  |         | П        |          | ┪      |
|        |         | 0             |               | 1       | Т        |    | T       | Т       |     |        | 64       | П |          | $\neg$        | _       | _             | 1       | $\top$  | T       | 1   |          | 114      | 1       | 1             | 1            | $\top$  | 1       | П        |          | ┪      |
|        | 5       | V             |               |         |          | П  | $\neg$  |         | ir  |        | 65       | П |          | $\neg$        | $\neg$  | $\neg$        | $\top$  | $\top$  |         | il  |          | 115      | 7       | $\neg$        | $\top$       | $\top$  |         |          |          | ┑      |
|        | 6       |               |               |         |          | П  | T       |         | ıF  |        | 66       |   |          | $\neg$        | $\neg$  | $\neg$        | $\top$  | $\top$  |         | 1   |          | 116      | T       | $\top$        | $\top$       | $\top$  |         |          |          | ┑      |
| 1      | 7       | $\neg$        |               | Т       | Т        | П  | 7       | Т       |     |        | 67       | П | $\neg$   | $\neg$        | $\neg$  | ╅             | $\top$  | Т       | Т       | 1   |          | 117      | 寸       |               | T            | $\top$  | Т       | П        | $\Box$   | ╛      |
| 1      | 8       | T             | $\top$        | Т       | т        | П  | $\neg$  |         |     |        | 68       | П | П        | ╗             | T       |               | T       |         | $\top$  | 1   |          | 118      | T       | $\neg$        | Т            | $\top$  |         |          |          | $\neg$ |
| 1      | 9       | T             | $\top$        |         | Т        | П  | $\neg$  | $\top$  |     |        | 69       | П | П        | ╗             | T       |               | $\top$  | Т       | $\top$  | 1   |          | 119      | T       | $\neg$        | Т            | $\top$  |         |          |          | ╗      |
| 2      |         | П             | Т             | Т       | П        | П  | Т       |         | ΙГ  |        | 70       | П | П        | П             | ╗       | Т             | Т       | Т       | Т       | 1   |          | 120      | ╗       | $\neg$        | Т            | $\top$  | П       |          |          | $\neg$ |
| 2      | 1       | П             | Т             | Т       | П        | П  | Т       |         | ΙГ  |        | 71       | П | П        | ╗             | ╗       | Т             | Т       | T       | Т       | 1   |          | 121      | Т       | Т             | Т            | $\top$  | П       |          |          | ╗      |
| 2      |         |               |               |         |          |    | $\Box$  |         |     |        | 72       |   |          |               |         |               | $\Box$  |         |         | 1   |          | 122      |         | $\Box$        | Т            | $\top$  |         |          |          |        |
| 2      |         |               |               |         |          |    |         |         |     |        | 73       |   |          |               | П       |               | Т       |         |         | 1   |          | 123      |         |               | Т            | T       |         |          |          |        |
|        | 4       |               |               |         |          |    |         |         |     |        | 74       |   |          |               | $\Box$  |               | Т       |         |         | ]   |          | 124      |         |               | Т            | $\top$  |         |          |          |        |
| 2      | 5       |               |               |         |          |    |         |         |     |        | 75       |   |          |               | П       |               | Т       |         |         | ]   |          | 125      |         |               | Т            | $\top$  |         |          |          |        |
| 2      |         |               |               |         |          |    |         |         |     |        | 76       |   |          |               |         |               |         |         |         | ]   |          | 126      |         |               |              | $\perp$ |         |          |          |        |
|        | 7       |               |               |         |          |    |         |         |     |        | 77       |   |          |               |         |               |         |         |         | ]   |          | 127      |         |               |              | $\perp$ |         |          |          |        |
| 2      |         |               |               |         |          |    |         |         |     |        | 78       |   |          |               |         |               |         |         |         | ]   |          | 128      |         |               |              | $\perp$ |         |          |          |        |
| 2      |         |               |               |         |          |    |         |         |     |        | 79       |   |          |               |         |               | $\perp$ |         |         | ]   |          | 129      |         |               | $\perp$      | $\perp$ |         |          |          |        |
| 3      |         |               |               |         |          |    | $\perp$ |         |     |        | 80       |   |          |               |         | $\perp$       | $\perp$ | $\perp$ |         | ]   |          | 130      | $\perp$ |               | $\perp$      | $\perp$ |         |          |          |        |
| 3      |         |               |               |         |          | П  |         |         |     |        | 81       | Ш |          |               | $\perp$ |               | $\perp$ | 1       |         | Į   |          | 131      |         | $\perp$       | $\perp$      | $\perp$ | ┖       |          | П        | ᆜ      |
|        | 2       | _             | _             | 1       | $\perp$  | Ц  | 4       | $\perp$ | L   |        | 82       | Ц | $\Box$   | _             | _       | _             | 4       | 1       | 1       | Į   |          | 132      | _[      | 4             | 1            | _       | 1       | $\Box$   | Ц        | _      |
| 3      |         | _             | _             | $\perp$ | $\vdash$ | Ц  | _       | $\perp$ | L   | _      | 83       | Ц |          | _             | _       | _             | 4       | 1       | 1       | Į   |          | 133      | _[      | _(            | 1            | _       | 1       | $\Box$   | Ц        | ┙      |
| 3      |         | _             | _ _           | $\perp$ | ╙        | Ш  | 4       | 4       | L   |        | 84       | Ш |          | _             | _       | _             | 4       | 4       | _       | 1   |          | 134      | _       | 4             | 4            | 4       | 1_      | Ш        |          | ┙      |
| 3      |         | 4             | _             | 1       | _        | Ш  | 4       | $\perp$ | l L |        | 85       | Ш | Ш        | 4             | 4       | _             | 4       | +       | +       | Į   |          | 135      | _       | 4             | 4            | +       | 1       | Ш        | Ш        | 4      |
| 3      |         | _             | _             | $\perp$ | ╙        | Ш  | 4       | $\perp$ | l L | _      | 86       | Ш | $\Box$   | 4             | 4       | _             | 4       | +       | +       | Į   | $\perp$  | 136      | _       | 4             | +            | $\perp$ | 1       | $\vdash$ | ш        | 4      |
| 3      |         | 4             |               | +       | ⊢        | Ш  | _       | $\perp$ | l L | _      | 87       | Ш | Ц        | _             | 4       | $^{\perp}$    | 4       | 4       | +       | 1   | $\perp$  | 137      | 4       | +             | +            | +       | 4       | Н        | Ц        | 4      |
| 3      |         | _             |               | 1       | ╄        | Ш  | _       |         | L   | _      | 88       | Ш |          | _             | _       | _             | 4       | 4       | +       | Į I |          | 138      | _ļ      | 4             | 4            | 4       | +       | $\vdash$ | Ш        | _      |
| . 3    |         | _             | _             | 1       | ₩        | ш  | _       |         | ΙL  | _      | 89       | Ш | Ц        | _             | 4       | _             | 4       | +       | 1       | 1   |          | 139      | 4       | $\perp$       | 4            | 4       | 1       | $\vdash$ | ш        | Щ      |
| 4      |         | 4             |               | 1       | 1        | Н  | 4       |         | L   | _      | 90       | Ы |          | -             | -1      | 4             | 4       | +       | _       | Į I |          | 140      | 4       | 4             | 4            | 4       | 4-      | 1        | _        | 4      |
| 4      |         | 4             |               | 4-      | 1        | Н  | 4       |         | L   | _      | 91       | Ш |          | -             | -1      | -             | 4       | 4       | 4       | Į I |          | 141      | 4       | 4             | 4            | - -     | 4-      | H        |          | 4      |
|        | 2       | _             | _             | $\perp$ | ⊢        | Н  | _       | $\perp$ | l L |        | 92       | Н |          | _             | _       | _             | 4       | 4       | $\perp$ | 1   |          | 142      | _       | $\perp$       | 4            | _       | $\perp$ | $\perp$  |          | 4      |
|        | 3       | _             | +             | +       | ₩        | Н  | _       | +       | L   | _      | 93       | Ш | Ш        | _             | _       | _             | +       | 4       | +       | 1   |          | 143      | _       | 4             | +            | +       | $\perp$ | Н        | Н        | 4      |
| 4      |         | -             | +             | +       | ₩        | Н  | 4       | +       | l H | _      | 94       | Ш | Ш        | -             | 4       | -             | +       | +       | +       | 1   |          | 144      | 4       | 4             | +            | +       | +       | Н        | Н        | 4      |
| 4      |         | -             | +             | +       | $\vdash$ | Н  | _       | $\perp$ | ΙL  | _      | 95       | Ш | Ш        | _             | 4       | $\rightarrow$ | +       | +       | +       | 1   |          | 145      | 4       | +             | +            | +       | +       | Н        | Н        | 4      |
| 4      |         | -             | +             | +       | ⊢        | Н  | +       | $\perp$ | H   | _      | 96       | Н | $\Box$   | -             | -       | +             | +       | +       | +       | 1   |          | 146      | -       | +             | +            | +       | $\perp$ | Н        | $\vdash$ | 4      |
| 4      |         | -             | +             | +       | 1        | Н  | 1       | $\perp$ | H   | _      | 97       | ш |          | _             | 4       | $\rightarrow$ | +       | +       | $\perp$ | 1   |          | 147      | 4       | +             | +            | +       | 1       | ш        | ш        | 4      |
| 4      |         | $\rightarrow$ | +             | +       | $\vdash$ | Н  | +       | $\perp$ | 1 H | _      | 98       | Н | $\Box$   | $\rightarrow$ | -       | $\rightarrow$ | +       | +       | +       | 1   |          | 148      | 4       | +             | +            | +       | +       | $\vdash$ | $\vdash$ | 4      |
| 4      |         | -             | +             | +       | $\vdash$ | Н  | $\perp$ | $\perp$ | 1 H | _      | 99       | Н | $\Box$   | _             | -       | $\rightarrow$ | +       | +       | +       | Į I | $\vdash$ | 149      | 4       | +             | +            | +       | +       | $\vdash$ | $\vdash$ | 4      |
| 5      | U       | $\perp$       |               | _       | _        | Ш  | $\perp$ | $\perp$ | L   |        | 100      | Ш | Ш        | $\perp$       |         |               | _       | ⊥       |         | J   |          | 150      |         |               | ⊥            | $\perp$ | _       | $\perp$  |          |        |